Portfolio

Wisconsin Agriculture—Plant Science

Skill Certification Program								
Coop Areas Completed	Student Information							
 Employability Skills Agribusiness Plant and Soil Science 	School Teacher Coordinator Workplace Mentor	Phone Phone Phone Phone						
Start Date End Date	Other Information:	PREPARING SOCIAL RESPONSIBILITY OF CLOBAL COMPETITIVE METALS OF CLOBAL COM						

Agriculture—Plant Science Skill Standards Rating Scale

Initials

- 3 Proficient—able to perform entry-level skills independently.
- Intermediate—has performed task; may need additional training or supervision.
- Introductory—is familiar with process but is unable, or has not had the opportunity, to perform task; additional training is required.
- SB School Based
- WB Work Based

	Description of Skills	3	2	1	SB	WB	Comments
	ONE: Core Employability Competencies						
20 competencies must be achieved at level 2 or 3							
Rasio	Skills						
1.				1		1	
1.	information in prose and in documents such as manuals, graphs,						
	and schedules.						
2.	Writing—communicates thoughts, ideas, information and						
	messages in writing; and creates documents such as letters,						
	directions, manuals, reports, graphs and flow charts.						
3.	Mathematics—Performs basic computations and approaches						
	practical problems by choosing appropriately from a variety of						
	mathematical techniques.						
4.	Listening—receives, attends to, interprets, and responds to						
	verbal messages and other cues.						
5.	Speaking—organizes ideas and communicates orally.						
6.	Career Development—understands application process,						
	develops personal career goals, understands individual potential.						
Person		iabilit	y, sei	f-ma	nagemen	t, integrity	and honesty, and extends these skills to facilitating working well with others.
7.	Demonstrates integrity/honesty and chooses ethical courses of						
	action.						
8.	Serves clients/customers, working to satisfy customer's						
0	expectations.						
9.	Participates as a member of a team, contributing to group						
10.	efforts. Demonstrates leadership skills, including teaching others new						
10.	skills.						
11.	Works well with women and men from diverse backgrounds.						
Think	ing/Information Processing Skills: Thinks creatively, makes dec processes where necessary.	ision	s, sol	ves p	roblems,	visualizes,	knows how to learn and reason, and acquire and utilize information to aid these
12.				1			
12.	using computers to aid this task where necessary.						
13.	Recognizes problems and devises and implements plans of						
	action.						
14.	Generates new ideas through creative thinking.						
15.	Makes decisions through specifying goals and constraints,						
	generating alternatives, considering risks, and evaluating and						
	choosing the best alternatives.						
16.	Uses efficient learning techniques to acquire and apply new						
	knowledge and skills.						

Rating Initials								
Description of Skills	3	2	1	SB	WB	Comments		
Systems/Technology: Understands complex interrelationships of systems and works with a variety of technologies.								
17. Knows how social, organizational, and technological systems work and operates effectively with them.								
18. Understands relationships among technological functions, pinpoints errors in technologies' performance and corrects problems in operations.								
19. Selects the appropriate tools or equipment for a task, including computers and related technologies.								
20. Understands the function and proper procedures for technologies related to a task.								
21. Prevents, identifies, or solves problems with equipment, including computers and other technologies.								
22. Understands basic safety precautions and takes measures to implement them.								
PART TWO: Agribusiness Competencies 27 competencies must be achieved at level 2 or 3								
Sales								
1. Support the mission statement of the workplace.								
2. Identify potential customers.								
Determine customer needs and wants.								
4. Recommend product or service to meet customer needs and wants.								
5. Identify and overcome customer objections.								
6. Present sales proposal.								
7. Utilize sales tools.								
8. Close sale.								
9. Record sales information.								
Customer Relations		I						
10. Respond to customer complaints.								
11. Establish a positive customer relationship.								
Marketing					•			
12. Outline a marketing plan.								
13. Prepare product demonstrations, exhibits, or displays.								
14. Write news articles.								
15. Create advertisements.								
Technical Assistance								
16. Acquire company/product information for use in providing customer service.								
17. Read and follow product label information.								
18. Explain safety precautions regarding product use or application.								
19. Utilize marketing/sales databases.								

Rating Initials						
Description of Skills	3	2	1	SB	WB	Comments
Process Customer Orders						
20. Load, mix, and/or prepare orders for delivery.						
21. Complete invoices.						
22. Deliver products and load customer vehicles.						
23. Maintain customer information.						
23. Wantam customer information.						
Communications						
24. Handle phone communications.						
25. Use fax, E-Mail, and other communication systems.						
Professional Development		1			1	-
26. Become involved as a student member of an agricultural/professional organization.						
27. Attend a sales or other job-related meeting.						
28. Differentiate among forms of agribusiness organizational						
structures.						
29. Explain the importance of agribusiness to international markets or						
the economy. 30. Use agribusiness information and other continuing professional						
education sources to update plant/soil skills and knowledge.						
PART THREE: Plant and Soil Competencies						
25 competencies must be achieved at level 2 or 3						
Plant Morphology and Physiology Competencies						
Predict the phenotypes of offspring from a genetic cross.						
2. Pollinate plants.						
3. Propagate plants asexually.						
4. Germinate seeds.						
5. Analyze plant emergence.						
6. Explain nutrient uptake in a plant.						
7. Manage factors that affect plant growth.						
8. Identify plant nutrient deficiencies.						
Demonstrate correct application of plant fertilizer.	\vdash					
10. Demonstrate correct use of pesticides.	 		1			
11. Examine the factors that affect photosynthesis.	\vdash					
12. Examine the factors that affect respiration.			+			
13. Examine the factors that affect transpiration.			+			
14. Identify 30 common weeds.			1			
15. Identify 10 agronomic crops.			1			
16. Identify 10 agronomic crops. 16. Identify 10 common crop seeds.			1			
	_		1			
17. Identify 5 common weed seeds.			1		[

	F	Rating		I	nitials		
Description of Skills	3	2	1	SB	WB	Comments	
Soil and Soil Management							
18. Explain the soil formation and development processes.							
19. Analyze the physical properties of soils.							
20. Assess the role of organic matter and microbes in the soil.							
21. Assess soil water conditions.							
22. Develop a tillage plan.							
23. Evaluate types of wind and water erosion.							
24. Determine erosion control methods.							
25. Determine the conservation and land use practices that are appropriate for a given land capability class.							
26. Interpret soil maps.							
27. Develop soil conservation plans for specific fields.							
28. Assess compliance with existing conservation compliance plans.							

The Competencies in This Portfolio Have Been Endorsed By:



Wisconsin FFA Association



Wisconsin Association for Leadership in Education and Work



Wisconsin Association of Vocational Agriculture Instructors, Inc.



Wisconsin Association for Career and Technical Education



Wisconsin Agribusiness Council



Wisconsin Technical College System



Wisconsin Department of Public Instruction